

Supplementary Material

A Zn(II)-MOF Assembled by Triazine-Based Polycarboxylate and 4,4'-bipy: Structure, Fluorescent Properties, and Water Vapour Adsorption

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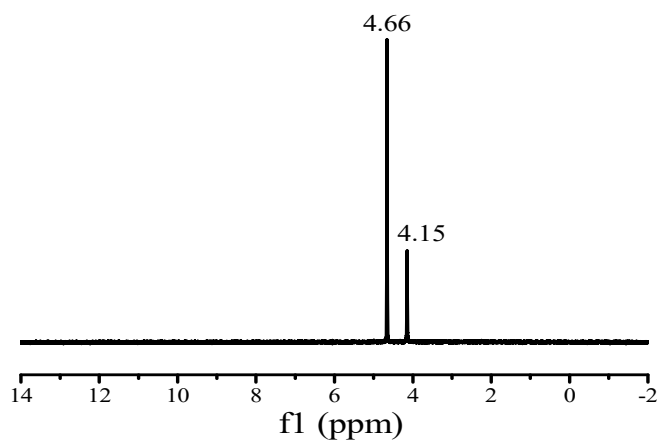


Fig. S1. The ¹H NMR spectra of H₆TTHA.

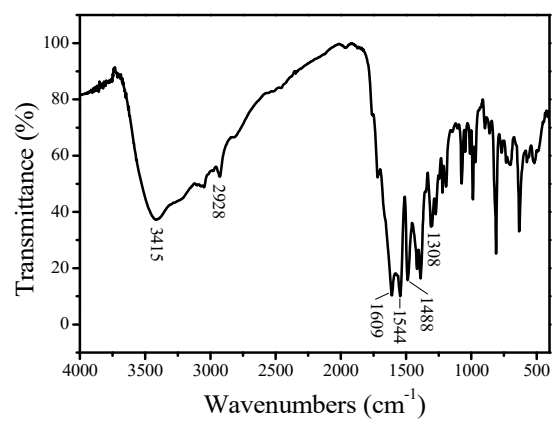


Fig. S2. The IR spectra of **1**.

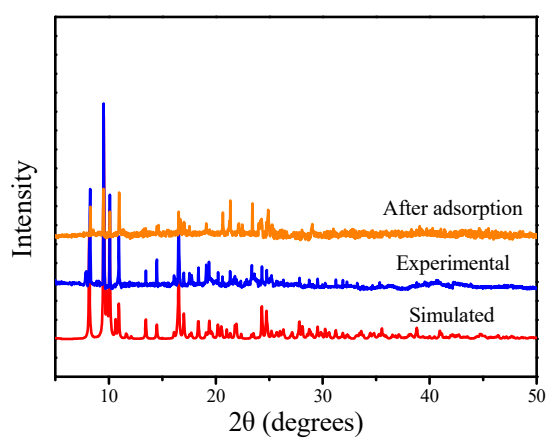


Fig. S3. The XRD pattern of **1**.

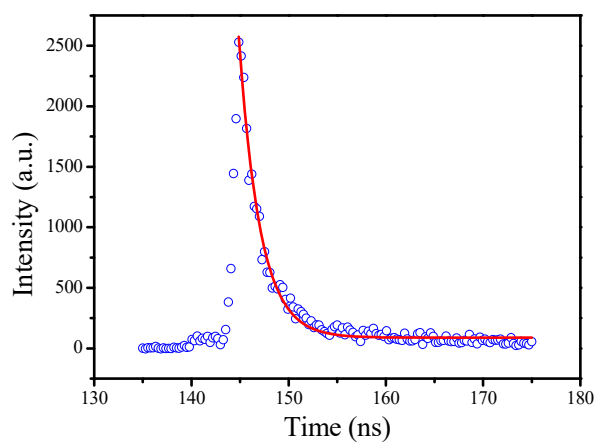


Fig. S4. The solid-state fluorescence life fitting curve of **1**.

Table S1. Selected bond lengths (Å) of **1**

1			
Zn1-O9	1.937(6)	Zn1-O2	1.974(6)
Zn1-O14	1.960(6)	Zn1-N1	2.094(7)
Zn2-O10	2.077(6)	Zn2-O7	2.078(6)
Zn2-O14	2.135(6)	Zn2-O13	2.174(6)
Zn2-N2	2.126(7)	Zn2-N9	2.173(8)
Zn3-O4	1.939(6)	Zn3-O11	1.969(6)
Zn3-O13	1.993(6)	Zn3-O14	2.022(5)
Zn4-O13	1.955(6)	Zn4-O15	1.991(6)
Zn4-O5	2.281(6)	Zn4-O8	2.101(6)
Zn4-N10	2.056(9)		
Zn1-O14-Zn3	116.8(3)	Zn1-O14-Zn2	116.1(3)
Zn3-O14-Zn2	94.2(2)	Zn4-O13-Zn3	126.0(3)
Zn3-O13-Zn2	93.8(2)	Zn4-O13-Zn2	117.7(3)

Table S2. Hydrogen-bond geometry (Å, °) of **1**

D-H...A	D-H	H...A	D-H...A
O13-H13A...O14	0.850(6)	2.504(5)	100.5(4)
O13-H13A...O7	0.850(6)	2.120(6)	152.7(4)
O14-H14C...O11	0.850(5)	2.385(6)	147.1(4)
O15-H15A...O6	0.851(6)	1.863(8)	140.8(5)
O15-H15B...O12	0.850(6)	2.011(9)	136.8(5)
O16-H16C...O1	0.849(7)	1.871(6)	157.5(5)
O16-H16D...O11	0.850(7)	2.122(6)	158.4(5)